Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Magellan Pipeline Company, L.P. - Des Moines Terminal
Facility Location: 2503 S.E. 43rd Street
Pleasant Hill, Iowa 50317
Air Quality Operating Permit Number: 98-TV-019R1-M001
Expiration Date: June 24, 2010

EIQ Number: 92-6788
Facility File Number: 77-01-114

Responsible Official
Name: Mr. Rick Olson
Title: Vice President, Pipeline Operations and Technical Services
Magellan Pipeline Company, L.P.
Mailing Address: One Williams Center
P.O. Box 22186, Mail Drop 28-2
Tulsa, OK 74121-1899
Phone #: (918) 574-7500

Permit Contact Persons for the Facility

Name: Mr. Ryan Bowers
Title: Air Quality Specialist
Mailing Address: One Williams Center
P.O. Box 22186, Mail Drop 27-3
Tulsa, Oklahoma 74121-2186
Phone #: (918) 574-7471

Name: Mr. Steve Steward
Title: Area Manager
Mailing Address:
2503 S.E. 43rd St.
Pleasant Hill, IA 50317
Phone #: (515) 265-2111

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

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Douglas A. Campbell, Supervisor of Air Operating Permits Section Date

Table of Contents

Abbreviations

acfm.....actual cubic feet per minute
AQD……Polk County Public Works- Air Quality Division
CAS……...Chemical Abstract Service Registry
CE .....Control Equipment
CEM.....Continuous Emission Monitor
CFR.....Code of Federal Regulation
^{o}F.....degrees Fahrenheit
EIQ.....Emissions Inventory Questionnaire
EP……Emission Point
EU……...Emission Unit
gr./dscf .....grains per dry standard cubic foot
gr./ 100 cf……...grains per one hundred cubic feet
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
ISCST……Industrial Source Complex Short Term Dispersion Model
MACT……Maximum Achievable Control Technology
$\mu g/m^3$……..Micrograms per Cubic Meter
MM BTU/ Hr……..Million British Thermal Units per Hour
MSDS……Material Safety Data Sheet(s)
MVAC.....Motor Vehicle Air Conditioner
NAICS.....North American Industry Classification System
NESHAP…….National Emission Standards for Hazardous Air Pollutants
NSPS .....New Source Performance Standard
ppmv……..…parts per million by volume
psia……..pounds per square inch absolute
lb./hr .....pounds per hour
lb./MMBtu .....pounds per Million British thermal units
RVP……Reid Vapor Pressure
SCC.....Source Classification Codes
scfm…….standard cubic feet per minute
SIC……..Standard Industrial Classification
TPY…….Tons Per Year
USEPA.....United States Environmental Protection Agency
VCU……Vapor Combustion Unit

Pollutants

PM.....Particulate Matter
PM_{10}……...Particulate Matter ten microns or less in diameter
SO_2 .....Sulfur dioxide
NO_x .....Nitrogen Oxides
VOC(s).....Volatile Organic Compound(s)
CO .....Carbon Monoxide
HAP(s) .....Hazardous Air Pollutant(s)

I. Facility Description and Equipment List

Facility Name: **Magellan Pipeline Company, L.P. - Des Moines Terminal**
Permit Number: 98-TV-019R1-M001

Facility Description: Gasoline Terminal/ Pipe Line Breakout Station, SIC 4613

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit #
1	1	Gasoline/ Distillate Loading Rack, Submerged Normal, with Zeeco Vapor Combustion Unit	1250 MODIFIED 3
2	2	Tank 419- 252,000 Gallon Capacity, Gasoline, Domed External Floating Roof	1326
3	3	Tank 420- 252,000 Gallon Capacity, Gasoline, Domed External Floating Roof	1325
4	4	Tank 511- 504,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
5	5	Tank 616- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
6	6	Tank 617- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
7	7	Tank 618- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
8	8	Tank 619- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
9	9	Tank 620- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
10	10	Tank 621- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
11	11	Tank 622- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
12	12	Tank 643- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
13	13	Tank 648- 714,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit #
14	14	Tank 651- 840,000 Gallon Capacity, Gasoline, Domed Exterior Floating Roof	NA
15	15	Tank 736- 1,260,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
16	16	Tank 737- 1,260,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
17	17	Tank 738- 1,260,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
18	18	Tank 739- 1,260,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
19	19	Tank 747- 1,554,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
20	20	Tank 748- 1,554,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
21	21	Tank 749- 1,554,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
22	22	Tank 770- 1,512,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
23	23	Tank 771- 1,512,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
24	24	Tank 772- 1,512,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
25	25	Tank 773- 1,512,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
26	26	Tank 774- 1,512,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
27	27	Tank 775- 1,512,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
28	28	Tank 776- 1,512,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
29	29	Tank 777- 1,512,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
30	30	Tank 778- 1,512,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
31	31	Tank 779- 1,512,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
32	32	Tank 780- 1,512,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
33	33	Tank 803- 3,360,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
34	34	Tank 804- 3,360,000 Gallon Capacity, Gasoline, Domed External Floating Roof	NA
35	35	Tank 836- 3,234,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit #
36	36	Tank 837- 3,234,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
37	37	Tank 838- 3,234,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
38	38	Tank 839- 3,402,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
39	39	Tank 840- 3,402,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
40	40	Tank 1307- 1,680,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
41	41	Tank 1308- 1,680,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
42	42	Tank 1309- 1,680,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
43	43	Tank 1310- 1,680,000 Gallon Capacity, Gasoline, Internal Floating Roof	NA
44	44	Tank 1311- 1,680,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
45	45	Tank 1507- 6,300,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
46	46	Tank 1508- 2,562,000 Gallon Capacity, Jet Kerosene, Vertical Fixed Roof	NA
47	47	Solar Saturn Natural Gas Turbine Engine, 11.55 MM BTU/ Hr	NA
48	48	Fugitive Emissions (Valves, Pumps, and Flanges)	NA
51	51	Natural Gas Fired Heater (Fractionator), 6.46 MM BTU/Hr	0627
56	56	Rail Car Rack/ Fuel Oil Loading & Unloading	1229
62	62	Tank 1150- 4,200,000 Gallon Capacity, Gasoline (RVP 13), Internal Floating Roof	1182
63	63	Tank 1151- 4,200,000 Gallon Capacity, Gasoline (RVP 13), Internal Floating Roof	1183
64	64	Tank 1152- 4,200,000 Gallon Capacity, Gasoline (RVP 13), Internal Floating Roof	1184
65	65	Air Lift Trench Remediation System	1233 MODIFIED 2
68	53	Groundwater/ Soil Remediation System	0717 MODIFIED 2
	59	Groundwater/ Soil Remediation System	1486
	68	DDC/SVE Groundwater Soil Remediation System, consisting of 86 wells designed to operate in either DDC or SVE mode	1485

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
49-1	Bulk Additive Storage Tank- 8,000 Gallon Capacity, Horizontal Fixed Roof
49-2	Bulk Additive Storage Tank- 3,000 Gallon Capacity, Horizontal Fixed Roof
49-3	Bulk Additive Storage Tank- 4,200 Gallon Capacity, Horizontal Fixed Roof
49-4	Bulk Additive Storage Tank- 4,200 Gallon Capacity, Horizontal Fixed Roof
49-5	Bulk Additive Storage Tank- 600 Gallon Capacity, Horizontal Fixed Roof
49-6	Bulk Additive Storage Tank- 2,600 Gallon Capacity, Vertical Fixed Roof
49-7	Bulk Additive Storage Tank- 1,000 Gallon Capacity, Vertical Fixed Roof
49-8	Bulk Additive Storage Tank- 1,100 Gallon Capacity, Horizontal Fixed Roof
49-9	Bulk Additive Storage Tank- 3,000 Gallon Capacity, Horizontal Fixed Roof
49-10	Bulk Additive Storage Tank- 2,500 Gallon Capacity, Vertical Fixed Roof
49-11	Bulk Additive Storage Tank- 2,000 Gallon Capacity, Vertical Fixed Roof
49-12	Bulk Additive Storage Tank- 300 Gallon Capacity, Vertical Fixed Roof
49-13	Bulk Additive Storage Tank- 100 Gallon Capacity, Horizontal Fixed Roof
49-14	Bulk Additive Storage Tank- 2,540 Gallon Capacity, Horizontal Fixed Roof
49-15	Bulk Additive Storage Tank- 2,000 Gallon Capacity, Horizontal Fixed Roof
49-16	Bulk Additive Storage Tank- 1,000 Gallon Capacity, Horizontal Fixed Roof
49-17	Bulk Additive Storage Tank- 3,000 Gallon Capacity, Vertical Fixed Roof
50	Oil and Water Separator System (Sumps and Water Tanks)
52	Natural Gas Fired Boiler (Station), 1.75 MM BTU/ Hr
54	LPG Flare (Emergency Use Only)
57	Unloading Skids
58	Pressure Vessels
66	Remediation Product Recovery Tank
67	Q Grade Filter Drainage
69	#2 Fuel Oil Storage Tank # 1140- 5.5 MM Gallon Capacity, Vertical Fixed Roof
72	Transmix Distillation Unit (fractionator)

*: Contents of the gasoline additive tanks may be any volatile organic liquid, provided that the Reid Vapor Pressure (RVP) and the HAP content of the stored liquid are less than or equal to Jet Naphtha's RVP and HAP content. Additives stored may have higher HAP content than Jet Naphtha, provided that the calculated HAP PTE of the storage tank is less than insignificant activity thresholds, (2,500 lb./ yr for combined HAPs; 1,000 lb./ yr. for any individual HAP; and 100 lb./ yr. for any individual High-Risk pollutant)

Authority for Requirement: 567 IAC 22.103 (2)
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

II. Plant-Wide Conditions

Facility Name: **Magellan Pipeline Company, L.P. - Des Moines Terminal**
Permit Number: 98-TV-019R1-M001

Permit conditions are established in accord with 567 Iowa Administrative Code Rule 22.108

Permit Duration

The term of this permit is: Five (5) Years
Commencing on: June 24, 2005
Ending on: June 24, 2010

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code Rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Plant-Wide Emission Limits
The atmospheric emissions from the plant as a whole shall not exceed the following:

Pollutant: HAP
Emission Rate (tons/yr.): 6.74 TPY (Single HAP) and 24.4 TPY (Combined HAPs)
HAPs found at the facility include the following: Hexane, Toluene, Benzene, 2,2,4 Trimethylpentane, Xylenes, and Ethyl Benzene
Authority for Requirement: 40 CFR Part 63.420, Subpart R
567 IAC 23.1 (4)"r"
Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (r)

Emission Limits:

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): <20% opacity
Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27

Particulate Matter: If the Polk County Health Officer determines that a process complying with the emission rates specified in Table 1 of Section 5-15 of Polk County Board of Health Rules and Regulations Chapter V is causing or will cause air pollution, the Polk County Health Officer will notify the source of such determination. Upon notification, the source shall not emit particulates in amounts greater than 0.10 grain per standard cubic foot of exhaust gas.
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Particulate Matter
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Combustion for indirect heating: Inside any metropolitan statistical area, the maximum allowable emission from each stack, irrespective of stack height, shall be 0.6 pounds of particulates per million Btu input.
Authority for Requirement: 567 IAC 23.3(2)"b"(2)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-15(b)

Fugitive Dust: It shall be unlawful for any person handling, loading, unloading, reloading, storing, transferring, transporting, placing, depositing, throwing, discarding, or scattering any ashes, fly ash, cinders, slag or dust collected from any combination process, any dust, dirt, chaff, wastepaper, trash, rubbish, waste or refuse matter of any kind, or any other substance or material whatever, which is likely to be scattered by the wind, or is susceptible to being wind-borne, to do so without taking reasonable precautions or measures to prevent particulate matter from becoming airborne so as to minimize atmospheric pollution.
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-24

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

Operating Scenarios: *The plant shall be operated according to the following scenarios:*

Upon request by the EPA Administrator, IDNR representative, or Polk County representative, the owner or operator of the gasoline terminal shall demonstrate compliance with any paragraphs in 40 CFR 63.420 which the source is subject to.
Authority for Requirement: 40 CFR 63.420 (f)
567 IAC 23.1 (4) "r"
Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (r)

I. Facility remains an area source for 40 CFR 63.420, Subpart R

Record keeping and Reporting:

Facility shall maintain records and provide reports in accordance with the provisions of 40 CFR 63.420 which will be made available to the public upon request. This shall include:
(1) Maintain records to document that the facility 12 month rolling emission inventory for HAPs have not exceeded 6.74 TPY (Any Single HAP) and 24.4 TPY (Combined HAPs).
(2) Report in the Semi-Annual Monitoring Report by March 31 and September 30 of each year to Polk County Air Quality Division the facility 12 month rolling emission inventory for HAPs during the previous 12 months.
(3) A written request for modification shall be made by the facility to Polk County Air Quality Division before any physical or operational change at the facility is made which will result in an emission increase. Each such request shall document any expected HAP emission increase resulting from the change in the parameter.
Authority for Requirement: 40 CFR Part 63.420, Subpart R
567 IAC 23.1 (4) "r"
Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (r)

II. Facility becomes a major source under 40 CFR 63.420, Subpart R

If the facility meets or exceeds 10 TPY (Single HAP) and/ or 25 TPY (Combined HAPs), as demonstrated in an emission inventory or other credible evidence, then it becomes an affected source and is subject to the Maximum Available Control Technology (MACT) requirements of 40 CFR Part 63.420, Subpart R. Under this operating scenario, the Title V Operating Permit will require reopening and modification.
Authority for Requirement: 40 CFR Part 63.420, Subpart R
567 IAC 23.1 (4) "r"
Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (r)

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, Magellan Pipeline Company, L.P. - Des Moines Terminal is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Magellan Pipeline Company, L.P. - Des Moines Terminal shall comply with such requirements in a timely manner.
Authority for Requirement: 567 IAC 22.108(15)

III. Emission Point-Specific Conditions

Facility Name: **Magellan Pipeline Company, L.P. - Des Moines Terminal**
Permit Number: **98-TV-019R1-M001**

Emission Point ID Number: 1

Associated Equipment

Associated Emission Unit ID Numbers: 1
Emissions Control Equipment ID Number: CE 1
Emissions Control Equipment Description: Zeeco Vapor Combustion Unit

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Emission Unit vented through this Emission Point: 1
Emission Unit Description: Loading Rack, Submerged Normal
Raw Material/Fuel: Gasoline/ Distillate
Rated Capacity: 144,000 Gallons/ Hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: No visible emissions for more than 5 minutes in any two-hour period.
Authority for Requirement: Polk County Construction Permit 1250 MODIFIED 3

Pollutant: PM
Emission Limit: 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3 (2) "a"
Polk County Chapter V, Article VI, Sec. 5-14 (b)

Pollutant: SO_2: 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27

Pollutant: NOx
Emission Limits: 4.8 lbs./hr and 21.06 TPY
Concentration Limit: 0.0334 lbs./ 1,000 gallons of gasoline loaded
Authority for Requirement: Polk County Construction Permit 1250 MODIFIED 3

Pollutant: VOC
Emission Limits: 35.8 lbs./hr and 156.7 TPY
Concentration Limit: 35 milligrams of total organic compounds per liter of gasoline loaded
Authority for Requirement: Polk County Construction Permit: 1250 MODIFIED 3
Polk County Chapter V, Article VI, Sec. 5-16 (n) (42)
567 IAC 23.1 (2) "pp"
40 CFR 60.502 (b)

Pollutant: CO
Emission Limits: 12.02 lbs./hr and 52.66 TPY
Concentration Limit: 0.0835 lbs./1,000 gallons of gasoline loaded
Authority for Requirement: Polk County Construction Permit 1250 MODIFIED 3

Operational Limits & Requirements From EU 1

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: Truck loading is limited to 1,184,176,800 gallons per 12 month period, rolled monthly.

Control equipment parameters: 1. No visible emissions for more than 5 minutes in any two-hour period.
2. The Zeeco Vapor Combustor must be equipped with a thermocouple that continuously monitors flame presence.

Work practice standards: 1. Compliance with VOC emission limits will be determined by USEPA
Method 25A or Method 25B, conducted at the facility's expense. The leak testing and visual emission determination is required within 180 days after the new equipment is put into service. Monthly leak checks shall be performed as required by 60.502(j).
2. Loadout rack/ truck monitoring shall be conducted according to 40 CFR Subpart XX.

Reporting & Record keeping: 1.Loadout throughput records for each material will be maintained on site and made available to representatives of Polk County AQD upon request.
2. Testing and record keeping requirements will be in accordance with 40 CFR 60, Subpart XX. The facility shall maintain records of leak checks for each truck loaded at the facility. Results will be recorded, maintained on site, and made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit: 1250 MODIFIED 3
Polk County Chapter V, Article VI, Sec. 5-16 (n) (42)
567 IAC 23.1 (2) "pp"
40 CFR 60.502 (b)

NSPS Requirements:

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR 60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - VOC
Stack Test to be Completed by - July 1, 2006
Test Method – USEPA Method 25A or 25B

A. Prior to each test, test methodology shall be approved by Polk County Air Quality Division.
B. Each test shall consist of three (3) separate runs.

Authority for Requirement – 567 IAC 22.108 (3)
Polk County Board of Health Rules and Regulations: Chapter V, Article II, Section 5-4 (1), (2)

The owner of this equipment or the owner's authorized agent shall provide written notice to Polk County Air Quality Division, not less than 30 days before a required stack test. Results of the test shall be submitted in writing to Polk County Air Quality Division in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Gasoline Testing:

Pollutant – Methyl Tert-Butyl Ether (MTBE) (CAS # 1634-04-4)

- Benzene (CAS # 71432)
- Ethyl Benzene (CAS # 100414)
- Hexane (CAS # 110543)
- Toluene (CAS # 108883)
- 2,2,4 Trimethylpentane (CAS #540841)
- Xylenes (CAS # 1330207)

A sample of each grade of gasoline shall be taken once per year from the terminal and shall be speciated for percent by volume for each of the compounds listed above.

1. The permittee shall maintain the following compliance monitoring records:
a. the date, place and time of sampling or measurements;
b. the date the analyses were performed;
c. the company or entity that performed the analyses;
d. the analytical techniques or methods used;
e. the results of such analyses;
f. the operating conditions as existing at the time of sampling or measurement.;
g. the records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.) and;
h. throughput records of each material loaded during the measurement.

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample,

measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

Authority for Requirement – 40 CFR 70.6 (c)
567 IAC 22.108 (15)
Polk County Board of Health Rules and Regulations:
Chapter V, Article II, Section 5-4 (1), (2)

Results of the gasoline tests required above shall be submitted in writing to Polk County Air Quality Division in the form of a comprehensive report with each September 30th Semi-Annual Monitoring Report.
567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring Plan for Magellan Pipeline Company, L.P. – Des Moines Terminal
Facility located in Des Moines, Iowa

EP 1 – Truck Loading Rack w/ Vapor Combustion Unit (VCU)

I. Background

a. Emissions Unit
Description: Truck Loading Rack w/ VCU
Identification: EU 1 / CE 1 / EP 1
Facility: Magellan Pipeline Company, L.P.
Des Moines, Iowa

b. Applicable Regulation, Emission Limit, and Monitoring Requirements
Regulation No.: Construction Permit #1250 Modified 3
VOC Emission Limit or Standard: 35.8 lbs./hr; 156.7 TPY; and
35 mg of TOC/L of gasoline loaded
Current Monitoring requirements: Not Applicable

c. Control Technology

Zeeco Vapor Combustion Unit

II. Monitoring Approach

a. Indicator

1.) Presence of a flame
2.) Combustion chamber temperature

b. Measurement Approach

The system will heat the combustion chamber to a pre-determined temperature (minimum combustion chamber temperature is 200° F). Once the combustion chamber reaches the minimum temperature set point, a signal is generated enabling the Loading Rack to operate and allowing vapors to enter the combustion chamber for destruction.

A flame-eye/scanner is used to continuously monitor for the presence of a flame. If the flame goes out, or if no flame is present, the flame-eye/scanner transmits a signal and the Vapor Combustion Unit is shut down. In the event the Vapor Combustion Unit is shutdown during operation, the signal enabling operation of the Loading Rack is removed and the Loading Rack is automatically shutdown.

The combustion chamber temperature will be continuously monitored during operation of the Vapor Combustion Unit. If the combustion chamber temperature falls outside of the specified temperature range (200° F to 1802° F) at any point during operation, the Vapor Combustion Unit will be shut down. In the event the Vapor Combustion Unit is shutdown during operation, the signal enabling operation of the Loading Rack is removed and the Loading Rack is automatically shutdown.

c. Indicator Range

Between 200º and 1802º F

d. QIP (Quality Improvement Plan) Threshold (Optional)

Not applicable at this time.

e. Performance Criteria

Data representativeness:

1.) Presence of flame ensures combustion
2.) Proper temperature range in the combustion chamber can be associated with adequate vapor destruction per manufacturer data and initial performance test

Verification of operational status:	1.) Fire-eye verifies the presence of a flame 2.) A thermocouple monitors and controls the combustion chamber temperature
QA/QC practices and criteria:	Routine Inspection and maintenance of VCU is performed weekly. The VCU is calibrated, maintained and operated with manufacturer's recommendations taken into consideration.
Monitoring frequency:	Continuous
Data collection procedure:	1.) Flame presence is monitored by a fire-eye 2.) Combustion chamber temperature is monitored by a thermocouple
Averaging period:	Not Applicable

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 2 & 3

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity
2	2	Tank 419- Domed External Floating Roof	Gasoline	252,000 Gallons
3	3	Tank 420- Domed External Floating Roof	Gasoline	252,000 Gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from each emission point shall not exceed the levels specified below.

Emission Point, Tank ID	VOC Emission Limit	HAP Emission Limit (Combined)	Authority for Requirement
2 - Tank 419	0.4352 lbs./hr. 1.9065 TPY	0.020895 lbs./ hr. 0.091515 TPY	Polk County Construction Permit 1326
3 - Tank 420	0.4352 lbs./hr. 1.9065 TPY	0.020895 lbs./ hr. 0.091515 TPY	Polk County Construction Permit 1325

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:
Each tank is limited to no more than 26,208,000 gallons per 12-month period, rolled monthly.

Tank Content:
Actual tank contents may be the material as indicated above, or other volatile organic liquid, provided that the material has both:

a) equal or less volatility, and
b) equal or less amount of HAPs.

Work practice standards: Routine Periodic Inspection.

Reporting & Record keeping: Records of the rolling 12-month process throughput shall be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permits 1325 and 1326
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table Below

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity
4	4	Tank 511- Domed External Floating Roof	Gasoline	504,000 Gallons
5	5	Tank 616- Domed External Floating Roof	Gasoline	714,000 Gallons
6	6	Tank 617- Domed External Floating Roof	Gasoline	714,000 Gallons
7	7	Tank 618- Domed External Floating Roof	Gasoline	714,000 Gallons
8	8	Tank 619- Domed External Floating Roof	Gasoline	714,000 Gallons
9	9	Tank 620- Domed External Floating Roof	Gasoline	714,000 Gallons
10	10	Tank 621- Domed External Floating Roof	Gasoline	714,000 Gallons
11	11	Tank 622- Domed External Floating Roof	Gasoline	714,000 Gallons
12	12	Tank 643- Domed External Floating Roof	Gasoline	714,000 Gallons
13	13	Tank 648- Domed External Floating Roof	Gasoline	714,000 Gallons
14	14	Tank 651- Domed External Floating Roof	Gasoline	840,000 Gallons
15	15	Tank 736- Domed External Floating Roof	Gasoline	1,260,000 Gallons
16	16	Tank 737- Domed External Floating Roof	Gasoline	1,260,000 Gallons
17	17	Tank 738- Domed External Floating Roof	Gasoline	1,260,000 Gallons
18	18	Tank 739- Domed External Floating Roof	Gasoline	1,260,000 Gallons
19	19	Tank 747- Domed External Floating Roof	Gasoline	1,554,000 Gallons
20	20	Tank 748- Domed External Floating Roof	Gasoline	1,554,000 Gallons
21	21	Tank 749- Domed External Floating Roof	Gasoline	1,554,000 Gallons
22	22	Tank 770- Internal Floating Roof	Gasoline	1,512,000 Gallons
23	23	Tank 771- Internal Floating Roof	Gasoline	1,512,000 Gallons
24	24	Tank 772- Internal Floating Roof	Gasoline	1,512,000 Gallons
25	25	Tank 773- Vertical Fixed Roof	Jet Kerosene	1,512,000 Gallons
26	26	Tank 774- Vertical Fixed Roof	Jet Kerosene	1,512,000 Gallons
27	27	Tank 775- Vertical Fixed Roof	Jet Kerosene	1,512,000 Gallons
28	28	Tank 776- Vertical Fixed Roof	Jet Kerosene	1,512,000 Gallons
29	29	Tank 777- Internal Floating Roof	Gasoline	1,512,000 Gallons
30	30	Tank 778- Vertical Fixed Roof	Jet Kerosene	1,512,000 Gallons
31	31	Tank 779- Vertical Fixed Roof	Jet Kerosene	1,512,000 Gallons
32	32	Tank 780- Vertical Fixed Roof	Jet Kerosene	1,512,000 Gallons
33	33	Tank 803- Domed External Floating Roof	Gasoline	3,360,000 Gallons
34	34	Tank 804- Domed External Floating Roof	Gasoline	3,360,000 Gallons
35	35	Tank 836- Internal Floating Roof	Gasoline	3,234,000 Gallons
36	36	Tank 837- Internal Floating Roof	Gasoline	3,234,000 Gallons
37	37	Tank 838- Internal Floating Roof	Gasoline	3,234,000 Gallons
38	38	Tank 839- Vertical Fixed Roof	Jet Kerosene	3,402,000 Gallons
39	39	Tank 840- Vertical Fixed Roof	Jet Kerosene	3,402,000 Gallons
40	40	Tank 1307- Vertical Fixed Roof	Jet Kerosene	1,680,000 Gallons
41	41	Tank 1308- Internal Floating Roof	Gasoline	1,680,000 Gallons
42	42	Tank 1309- Vertical Fixed Roof	Jet Kerosene	1,680,000 Gallons
43	43	Tank 1310- Internal Floating Roof	Gasoline	1,680,000 Gallons
44	44	Tank 1311- Vertical Fixed Roof	Jet Kerosene	1,680,000 Gallons

Applicable Requirements

Emission & Operational Limits & Requirements

The owner/operator shall comply with the emission and operational limits and requirements below.

Gasoline Tank Requirements:

Emission Point, Tank ID	VOC Emission Limit	Each tank is limited to the following gallons per year throughput, rolled monthly
4 - Tank 511	1.487 TPY	52,416,000 gal/yr
5 - Tank 616	2.92 TPY	74,256,000 gal/yr
6 - Tank 617	2.92 TPY	74,256,000 gal/yr
7 - Tank 618	2.92 TPY	74,256,000 gal/yr
8 - Tank 619	2.92 TPY	74,256,000 gal/yr
9 - Tank 620	2.92 TPY	74,256,000 gal/yr
10 - Tank 621	2.92 TPY	74,256,000 gal/yr
11 - Tank 622	2.92 TPY	74,256,000 gal/yr
12 - Tank 643	2.92 TPY	74,256,000 gal/yr
13 - Tank 648	2.92 TPY	74,256,000 gal/yr
14 - Tank 651	1.77 TPY	87,360,000 gal/yr
15 - Tank 736	3.77 TPY	131,040,000 gal/yr
16 - Tank 737	3.77 TPY	131,040,000 gal/yr
17 - Tank 738	3.77 TPY	131,040,000 gal/yr
18 - Tank 739	3.77 TPY	131,040,000 gal/yr
19 - Tank 747	2.36 TPY	161,616,000 gal/yr
20 - Tank 748	2.36 TPY	161,616,000 gal/yr
21 - Tank 749	2.36 TPY	161,616,000 gal/yr
22 - Tank 770	3.73 TPY	157,248,000 gal/yr
23 - Tank 771	3.73 TPY	157,248,000 gal/yr
24 - Tank 772	3.73 TPY	157,248,000 gal/yr
29 - Tank 777	3.73 TPY	157,248,000 gal/yr
33 - Tank 803	5.7 TPY	349,440,000 gal/yr
34 - Tank 804	5.7 TPY	349,440,000 gal/yr
35 - Tank 836	6.10 TPY	336,336,000 gal/yr
36 - Tank 837	5.71 TPY	336,336,000 gal/yr
37 - Tank 838	5.71 TPY	336,336,000 gal/yr
41 - Tank 1308	3.93 TPY	174,720,000 gal/yr
43 - Tank 1310	2.55 TPY	174,720,000 gal/yr

Jet Kerosene Tank Requirements:

Emission Point, Tank ID	VOC Emission Limit	All tanks listed in this table combined are limited to the following gallons per year, rolled monthly
25 - Tank 773	0.776 TPY	2,332,572,000 gal/yr
26 - Tank 774	0.776 TPY	
27 - Tank 775	0.776 TPY	
28 - Tank 776	0.776 TPY	
30 - Tank 778	0.776 TPY	
31 - Tank 779	0.776 TPY	
32 - Tank 780	0.776 TPY	
38 - Tank 839	1.76 TPY	
39 - Tank 840	1.76 TPY	
40 - Tank 1307	0.872 TPY	
42 - Tank 1309	0.872 TPY	
44 - Tank 1311	0.872 TPY	

Tank Content:
Actual tank contents may be the material as indicated above, or other volatile organic liquid, provided that the material has both:

a) equal or less volatility, and
b) equal or less amount of HAPs.

Reporting & Record keeping:
Records of yearly process throughput, rolled monthly, shall be kept on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 45 & 46

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity
45	45	Tank 1507- Vertical Fixed Roof	Jet Kerosene	6,300,000 Gallons
46	46	Tank 1508- Vertical Fixed Roof	Jet Kerosene	2,562,000 Gallons

Applicable Requirements

Emission & Operational Limits & Requirements

The owner/operator shall comply with the emission and operational limits and requirements below.

Emission Point, Tank ID	VOC Emission Limit	Each tank is limited to the following gallons per year throughput, rolled monthly
45 - Tank 1507	3.28 TPY	655,200,000 gal/yr
46 - Tank 1508	1.15 TPY	266,448,000 gal/yr

Tank Content:

Actual tank contents may be the material as indicated above, or other volatile organic liquid, provided that the material has both:

a) equal or less volatility, and
b) equal or less amount of HAPs.

Reporting & Record keeping:

Records of yearly process throughput, rolled monthly, shall be kept on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

NSPS Requirements:

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR 60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports persuant to 40 CFR 60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

The permittee shall maintain a record of the liquid stored, throughput of the liquid, period of storage, and the true vapor pressure of the liquid stored on a continuous basis. Records of this information shall be kept on site and be made available upon request. Emissions shall be reported with the annual Emissions Inventory. The petroleum liquid stored shall have a true vapor pressure of less than 1.5 psia.

Authority for Requirement: 40 CFR 60 Subpart K
567 IAC 23.1(2) "bb"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Sec. 5-16 (n) (28)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 47

Emission Unit vented through this Emission Point: 47
Emission Unit Description: Solar Saturn Natural Gas Turbine Engine
Raw Material/Fuel: Natural Gas
Rated Capacity: 11.55 MM BTU/Hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM
Emission Limit: 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3 (2) "a"
Polk County Chapter V, Article VI, Sec. 5-14 (b)

Pollutant: SO_2
Emission Limit: 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 48

Emission Unit vented through this Emission Point: 48
Emission Unit Description: Fugitive Emissions (Valves, Pumps, and Flanges)
Raw Material/Fuel: Gasoline and Jet Naphtha*

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Not Applicable

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping: Records of yearly fugitive emission calculations, rolled monthly, shall be kept on site for 5 years and be made available to representatives of Polk County AQD upon request.

*: Actual fugitive emissions may be the material as indicated, or other volatile organic liquid vapors- provided that the material has both: a) equal or less volatility and b) equal or less amount of HAPs.

Authority for Requirement: Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 51

Emission Unit vented through this Emission Point: 51
Emission Unit Description: Natural Gas Fired Heater (Fractionator)
Raw Material/Fuel: Natural Gas
Rated Capacity: 6.46 MM BTU/Hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM
Emission Limit: 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3 (2) "a"
Polk County Chapter V, Article VI, Sec. 5-14 (b)

Pollutant: SO_2
Emission Limit: 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27

Pollutant: NOx
Emission Limits: 0.594 lbs./ hr and 2.60 TPY
Authority for Requirement: Polk County AQD Construction Permit 0627

Pollutant: CO
Emission Limits: 0.239 lbs./ hr and 1.05 TPY
Authority for Requirement: Polk County AQD Construction Permit 0627

Pollutant: VOC
Emission Limits: 0.162 lbs./ hr and 0.710 TPY
Authority for Requirement: Polk County AQD Construction Permit 0627

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Conditions: The permittee shall perform instrumental leak checks at all pump seals, valves, and flanges on a monthly basis.

Reporting & Record keeping: Records of leak checks shall be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County AQD Construction Permit 0627

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 56

Emission Unit vented through this Emission Point: 56
Emission Unit Description: Rail car rack, fuel oil loading and unloading, with thirteen (13) loading arms
Raw Material/Fuel: Fuel Oil
Rated Capacity: 65.52 Million Gallons/ Year

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: VOC
Emission Limit: 0.962 TPY
Authority for Requirement: Polk County Construction Permit: 1229

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: Loading and unloading from EU 56 is limited to 65.52 million gallons per 12 month period, rolled monthly. The rail car rack, with 13 loading arms, (EU 56), is limited to loading and unloading either fuel oil, or a less hazardous and less volatile petroleum material. Volatile Organic Compounds with a maximum estimated 4.8% HAP content.
Reporting & Record keeping: Loading and unloading records will be maintained on site for five years and made available to representatives of Polk County AQD upon request.
Authority for Requirement: Polk County Construction Permit: 1229

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 62, 63 and 64

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity
62	62	Tank 1150- 100,000 Barrel, Internal Floating Roof	Gasoline (RVP 13)	4,200,000 Gallons
63	63	Tank 1151- 100,000 Barrel, Internal Floating Roof	Gasoline (RVP 13)	4,200,000 Gallons
64	64	Tank 1152- 100,000 Barrel, Internal Floating Roof	Gasoline (RVP 13)	4,200,000 Gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from each emission point shall not exceed the levels specified below.

Emission Point, Tank ID	VOC Emission Limit	Authority for Requirement
62 - Tank 1150	4.42 TPY	Polk County AQD Construction Permit 1182
63 - Tank 1151	4.42 TPY	Polk County AQD Construction Permit 1183
64 - Tank 1152	4.42 TPY	Polk County AQD Construction Permit 1184

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

Each tank is limited to a throughput of no more than 436.8 million gallons per 12 month period, rolled monthly.

Each tank is limited to storing either RVP 13 Gasoline or a less hazardous and less volatile petroleum material.

Tank Content:

Actual tank contents may be the material as indicated above, or other volatile organic liquid, provided that the material has both:

a) equal or less volatility, and
b) equal or less amount of HAPs.

Reporting & Record keeping:

Throughput records will be maintained on site for five years and made available to representatives of AQD upon request.

NSPS Subpart Kb Requirements:

The owner/operator shall comply with all applicable requirements from 40 CFR 60 Subpart Kb. Below is a summary of those requirements.

40 CFR § 60.112b Standard for volatile organic compounds (VOC).

(a)(1) A fixed roof in combination with an internal floating roof meeting the following specifications:

(i) The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

(a)(1)(ii) Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:

(a)(1)(ii)(B) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

(iii) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.

(iv) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(v) Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(vi) Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(vii) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

(viii) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

(ix) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

40 CFR § 60.113b Testing and procedures.

(a) After installing the control equipment required to meet §60.112(a)(1) (permanently affixed roof and internal floating roof), each owner or operator shall:

(1) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other 201openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.

(2) For Vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Administrator in the inspection report required in §60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(3) For vessels equipped with a double-seal system as specified in §60.112b(a)(1)(ii)(B):

(i) Visually inspect the vessel as specified in paragraph (a)(4) of this section at least every 5 years; or

(ii) Visually inspect the vessel as specified in paragraph (a)(2) of this section.

(4) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in paragraphs (a)(2) and (a)(3)(ii) of this section and at intervals no greater than 5 years in the case of vessels specified in paragraph (a)(3)(i) of this section.

(5) Notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraphs (a)(1) and (a)(4) of this section to afford the Administrator the opportunity to have an observer present. If the inspection required by paragraph (a)(4) of this section is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to the refilling.

40 CFR § 60.115b Reporting and recordkeeping requirements.

(a) After installing control equipment in accordance with §60.112b(a)(1) (fixed roof and internal floating roof), the owner or operator shall meet the following requirements.

(1) Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of §60.112b(a)(1) and §60.113b(a)(1). This report shall be an attachment to the notification required by §60.7(a)(3).

(2) Keep a record of each inspection performed as required by §60.113b (a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

(4) After each inspection required by §60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in §60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of §61.112b(a)(1) or §60.113b(a)(3) and list each repair made.

40 CFR § 60.116b Monitoring of operations.

(a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.

(b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design capacity less than 75 m3 is subject to no provision of this subpart other than those required by this paragraph.

(c) Except as provided in paragraphs (f) and (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m3 but less than 151 m3 storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

(e) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.

(1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.

(2) For crude oil or refined petroleum products the vapor pressure may be obtained by the following:

(i) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference-see §60.17), unless the Administrator specifically requests that the liquid

be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

Authority for Requirement: Polk County AQD Construction Permits 1182, 1183 and 1184
40 CFR Subpart Kb
567 IAC 23.1(2)"ddd"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 65

Associated Equipment

Emissions Control Equipment ID Number: CE 65
Emissions Control Equipment Description: Catalytic Oxidizer

Emission Unit vented through this Emission Point: 65
Emission Unit Description: Air Lift Trench Remediation System
Raw Material/Fuel: Groundwater Contaminated with Gasoline
Rated Capacity: 300 acfm

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: VOC
Emission Limits: 2.31 lbs./ hr and 10.1 TPY
Allowable Concentration: 140.0 mg benzene/ cubic meter
Authority for Requirement: Polk County AQD Construction Permit 1233 MODIFIED (#2)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control equipment parameters: The Air-Lift Trench Remediation System, (EU 65 / EP 65), shall be operated with a properly installed and operating Catalytic Oxidizer, (CE 65), when the VOC emission rate exceeds or is equal to 2.08 lb/ hr, (rolling 12 month period average).

Work practice standards:

1) A sample of the remediation vent gases shall be taken once per month and analyzed for VOC/ HAP emission rate in lbs./ hr and concentration in mg/ L using NIOSH TO-3 or other approved method.
2) If the monthly analysis required indicates a VOC/ HAP emission rate or concentration higher than that allowed under the EP 65 Emission Limits, the facility must model the results using the most current version of SCREEN or ISCST for off-property and fence-line concentrations of BTEX and THC. Results must be submitted to Polk County AQD within one (1) month of the exceedance. Upon submission of modeling results, a determination will be made by AQD as to whether the emission limits in Polk County AQD Permit 1233 Modified (#2) may be administratively raised or installation of control equipment will be required.
3) Routine Periodic Inspection.

Reporting & Record keeping:

1) Sampling and analysis records will be maintained on-site for five years and made available to representatives of Polk County AQD upon request.
2) Actual VOC/ HAP emissions shall be calculated and reported as part of the Title V annual emissions inventory.

Authority for Requirement: Polk County AQD Construction Permit 1233 MODIFIED (#2)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring Plan for Magellan Pipeline Company, L.P. – Des Moines Terminal
Facility located in Des Moines, Iowa

EP 65 – Air Lift Trench Remediation System with Catalytic Oxidizer

I. Background

a. Emissions Unit

Description: Air Lift Trench (ALT) Remediation System with Catalytic Oxidizer
Identification: EU 65 / CE 65 / EP 65
Facility: Magellan Pipeline Company, L.P.
Des Moines, Iowa

b. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Construction Permit #1233 Modified 2
VOC Emission Limit or Standard: 2.31 lbs/hr; 10.1 tons/year; 140 mg/cubic meter
Current Monitoring requirements: A sample of the remediation vent gases must be taken once per month and analyzed for VOC/HAP emission rate in lbs/hr and concentration in mg/L using a NIOSH TO-3 method.

c. Control Technology

Catalytic Combustion Corporation Catalytic Oxidizer – The emission unit is authorized to operate uncontrolled up to 90% of the emission limits (up to 2.08 lb/hr VOC). Once emissions reach or exceed 2.08 lb/hr on a rolling 12-month period average, the Catalytic Oxidizer will be used to ensure that emissions do not exceed the 2.31 lb/hr (rolling 12-month period) limit.

II. Monitoring Approach

a. Indicator

i. Presence of a flame

ii. Combustion Chamber Temperature

b. Measurement Approach

Once the Catalytic Oxidizer is turned on, a blower fan will purge the existing air in the unit. The system will be ignited using a supplemental gas source (propane). The system will heat the combustion chamber to a minimum set point temperature (600° F). Once the combustion chamber reaches 600° F, a signal is generated enabling the ALT system to operate and allowing vapors to enter the combustion chamber for destruction.

A flame rod is used to continuously monitor for the presence of a flame. The flame rod sticks in the flame and an electronic controller sends an A/C voltage signal through the rod. If a flame is present, a D/C current is returned back to the controller. If the flame goes out, or if no flame is present, the controller loses the D/C voltage signal and the system is shut down.

A temperature switch is used to continuously monitor the combustion chamber temperature during operation of the Catalytic Oxidizer. If the combustion chamber temperature falls below 600° F at any point during operation, the Catalytic Oxidizer will be shut down. In the event the Catalytic Oxidizer is shutdown during operation, the signal enabling operation of the ALT system is removed and the remediation system is automatically shutdown.

c. Indicator Range

Minimum combustion chamber temperature of 600° F

d. QIP (Quality Improvement Plan) Threshold (Optional)

Not applicable at this time.

e. Performance Criteria

Data representativeness:	1.) Presence of a flame ensures combustion. 2.) Proper temperature range in the combustion chamber can be associated with adequate vapor destruction per manufacturer data.
Verification of operational status:	1.) A flame rod verifies the presence of a flame. 2.) A temperature switch monitors and controls the combustion chamber temperature.
QA/QC practices and criteria:	Routine Inspection and maintenance of the Catalytic Oxidizer is performed weekly when operational. The Catalytic Oxidizer is maintained and operated with manufacturer's recommendations taken into consideration.
Monitoring frequency:	1.) Flame presence is monitored continuously by a flame rod during operation. 2.) Combustion Chamber Temperature is monitored continuously during operation.
Data collection procedure:	1.) Presence of a flame is monitored with the use of a flame rod. 2.) Combustion chamber temperature is monitored with the use of a temperature switch.
Averaging period:	Not Applicable

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 68

Associated Equipment

Emissions Control Equipment ID Number: CE 68
Emissions Control Equipment Description: Flame/ Catalytic Oxidizer, Catalytic Combustion Corporation

EU = Emission Unit

EU	EU Description	Raw Material	Rated Capacity	Control ID
53	Groundwater/ Soil Remediation System	Gasoline contaminated vapor	5,000 scfm	CE 68
59	Groundwater/ Soil Remediation System	Gasoline contaminated vapor	5,000 scfm	CE 68
68	DDC/SVE Groundwater Soil Remediation System, consisting of 86 wells designed to operate in either DDC or SVE mode	Gasoline contaminated vapor	5,000 scfm	CE 68

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

EU	EU Description	VOC		NOx		Opacity
			TPY	lbs./hr.	TPY	
53	Groundwater/ Soil Remediation System	218.45 lbs./day	12	-	-	N/A
59	Groundwater/ Soil Remediation System	8.99 lbs/hr.	39.4	4	10	None Allowed
68	DDC/SVE Groundwater Soil Remediation System, consisting of 86 wells designed to operate in either DDC or SVE mode	8.99 lbs/hr.	39.4	4	10	None Allowed

Authority for Requirement: Polk County AQD Construction Permit 0717 Modified 2
Polk County AQD Construction Permit 1486
Polk County AQD Construction Permit 1485
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This unit (EU 53) shall emit through Control Equipment 68 (CE 68) a Thermal/Flame Oxidizer.

Authority for Requirement: Polk County AQD Construction Permit 0717 Modified 2
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

The oxidizer must be equipped to continuously monitor flame presence to insure that the minimum design operating temperatures are maintained for each mode of operation.

The control equipment shall be operated in accordance with the construction permit application and manufacturer's specifications. CE 68 controls EUs 53, 59, and 68.

Authority for Requirement: Polk County AQD Construction Permit 1485
Polk County AQD Construction Permit 1486
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

ALTERNATIVE OPERATING SCENARIO:

Upon demonstration that this unit [EU 53, 59, and 68] emits less than 80% of the emission rates [found in the Emission Limits table of EP 68], for a period of 12 consecutive months, this unit [EU 53, 59, and 68] shall be permitted to operate uncontrolled. Under this uncontrolled operating scenario, monthly monitoring of the emissions shall be conducted and if the emissions exceed 80% of the emission rates [found in the Emission Limits Table of EP 68], in any given month, the unit [EU 53, 59, and 68] will be shut down and the control equipment [CE 68] shall be re-installed and operated. This shall be conducted in accordance with all applicable requirements.

Authority for Requirement: Polk County AQD Construction Permit 1485
Polk County AQD Construction Permit 1486
Polk County AQD Construction Permit 0717 Modified 2
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

Reporting & Record keeping:

Remediation system effluents (influent to the oxidizer) and oxidizer effluents shall be sampled monthly, [using NIOSH TO-3 or other approved method]. Calculations shall be done monthly to allocate the combined post-control emissions proportionally amongst the remediation systems based on the percentage that each system contributes to total oxidizer loading as determined by the pre-control monitoring. A rolling 12 month total shall be generated monthly using the emission calculation result. Rolling 12 month totals shall be used to demonstrate compliance with emission limits of 218.45 pounds of VOC per day and 12 tons VOC per year (EU 53 / EP 68). Calculation results shall be maintained on site and made available to representatives of AQD upon request.

Authority for Requirement: Polk County AQD Construction Permit 0717 Modified 2
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

Remediation system effluents (influent to the oxidizer) and oxidizer effluents shall be sampled monthly, [using NIOSH TO-3 or other approved method]. Calculations shall be done monthly to allocate the combined post-control emissions proportionally amongst the remediation systems based on the percentage that each system contributes to total oxidizer loading as determined by the pre-control monitoring. A rolling 12 month total shall be generated monthly using the emission calculation result. Rolling 12 month totals shall be used to demonstrate compliance with emission limit of 39.4 tons VOC per year (EU 59 and EU 68 / EP 68). Calculation results shall be maintained on site and made available to representatives of AQD upon request.

Authority for Requirement: Polk County AQD Construction Permit 1485
Polk County AQD Construction Permit 1486
Polk County Board of Health Rules and Regulations, Chapter V, Article X, Div 2, Sec 5-40

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring Plan for Magellan Pipeline Company, L.P. – Des Moines Terminal
Facility located in Des Moines, Iowa

EP 68 – Density-Driven Convection/Soil Vapor Extraction Remediation System with Flame/Catalytic Oxidizer

I. Background

a. Emissions Unit

Description: Density-Driven Convection (DDC)/Soil Vapor Extraction (SVE) Remediation System with Flame/Catalytic Oxidizer
Identification: EU 53, 59, 68 / CE 68 / EP 68
Facility: Magellan Pipeline Company, L.P.
Des Moines, Iowa

b. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Polk County AQD Construction Permit 1485
Polk County AQD Construction Permit 1486
Polk County AQD Construction Permit 0717 Modified 2

Emission Limit or Standard: Refer to EP 68 Emission Limit Table above.

Current Monitoring requirements: A sample of the remediation system effluents and oxidizer effluent must be taken once per month and analyzed for VOC, [using NIOSH TO-3 or other approved method]. The post-control emissions must be allocated proportionally amongst the remediation systems based on each systems contribution to total oxidizer loading. A rolling 12-month total must be generated monthly to demonstrate compliance with the VOC emission limits [found in the Emission Limits Table of EP 68].

c. Control Technology

Catalytic Combustion Corporation – Flame/Catalytic Oxidizer

II. Monitoring Approach

a. Indicator

i. Presence of a flame
ii. Combustion Chamber Temperature

b. Measurement Approach

Once the Catalytic Oxidizer is turned on, a blower fan will purge the existing air in the unit. The system will be ignited using a supplemental gas source (propane). The system will heat the combustion chamber to a pre-determined temperature (1350° F in Flame and Thermal Mode and 600° F in Catalytic Mode). Once the combustion chamber reaches the minimum temperature set point, a signal is generated enabling the DDC/SVE system to operate and allowing vapors to enter the combustion chamber for destruction.

A flame-eye/scanner is used to continuously monitor for the presence of a flame. If the flame goes out, or if no flame is present, the flame-eye/scanner transmits a signal and the Flame/Catalytic Oxidizer is shut down. In the event the Flame/Catalytic Oxidizer is shutdown during operation, the signal enabling operation of the DDC/SVE system is removed and the remediation system is automatically shutdown.

The combustion chamber temperature will be continuously monitored during operation of the Flame/Catalytic Oxidizer. If the combustion chamber temperature falls below the minimum temperature set point (1350° F or 600° F) at any point during operation, the Flame/Catalytic Oxidizer will be shut down. In the event the Flame/Catalytic Oxidizer is shutdown during operation, the signal enabling operation of the DDC/SVE system is removed and the remediation system is automatically shutdown.

c. Indicator Range

Flame and Thermal Mode = Minimum combustion chamber temperature of 1350° F
Catalytic Mode = Minimum combustion chamber temperature of 600° F

d. QIP (Quality Improvement Plan) Threshold (Optional)

Not applicable at this time.

e. Performance Criteria

Data representativeness:	1.) Presence of a flame ensures combustion. 2.) Proper temperature range in the combustion chamber can be associated with adequate vapor destruction per manufacturer data.
Verification of operational status:	1.) A flame-eye/scanner verifies the presence of a flame. 2.) A temperature switch monitors and controls the combustion chamber temperature.

QA/QC practices and criteria:	Routine Inspection and maintenance of the Flame/Catalytic Oxidizer is performed weekly. The Flame/Catalytic Oxidizer is maintained and operated with manufacturer's recommendations taken into consideration.
Monitoring frequency:	1.) Flame presence is monitored continuously by a flame-eye/scanner. 2.) Combustion Chamber Temperature is monitored continuously using a temperature switch.
Data collection procedure:	1.) Presence of a flame is monitored with the use of a flame-eye/scanner. 2.) Combustion chamber temperature is monitored with the use of a temperature switch.
Averaging period:	Not Applicable

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22 and Polk County Board Of Health Rules And Regulations, Chapter V, Air Pollution, (Chapter V), Article X, 5-35.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and must be incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents
Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)"e"*

G4. Annual Compliance Certification
By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and Polk County Air Quality Division. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report
By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and Polk County Air Quality Division. *567 IAC 22.108 (5).*

G6. Annual Fee
1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the Department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
a. Form 1.0 "Facility Identification";
b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
c. Form 5.0 "Title V annual emissions summary/fee"; and
d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:

a. Form 1.0 "Facility Identification";
b. Form 5.0 "Title V annual emissions summary/fee";
c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"* and *Chapter V, Article II, 5-3 and 5-4*

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"* and *Chapter V, Article X, 5-46 and 5-47*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1) and Chapter V, Article VI, Section 5-17.1*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
a. The date, place and time of sampling or measurements
b. The date the analyses were performed.
c. The company or entity that performed the analyses.
d. The analytical techniques or methods used.
e. The results of such analyses; and
f. The operating conditions as existing at the time of sampling or measurement.
g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
a. Comply with all terms and conditions of this permit specific to each alternative scenario.
b. Maintain a log at the permitted facility of the scenario under which it is operating.
c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.
Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.
1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification
If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release
The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the Department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
ii. The estimated quantity of the excess emission.
iii. The time and duration of the excess emission.
iv. The cause of the excess emission.
v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
vi. The steps that were taken to limit the excess emission.
vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)* and *Chapter V, Article VI, 5-17*
3. Emergency Defense for Excess Emissions. For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:
a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
b. The facility at the time was being properly operated;
c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements
A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)* This notification must be made to Polk County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter V.

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act.

e. The changes comply with all applicable requirements.

f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which will be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110.(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110.(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110.(4)*
5. Aggregate Insignificant Emissions. The permittee shall not construct, establish or operate any new insignificant activities or modify any existing insignificant activities in such a way that the emissions from these activities no longer meet the criteria of aggregate insignificant emissions. If the aggregate insignificant emissions are expected to be exceeded, the permittee shall submit the appropriate permit modification and receive approval prior to making any change. *567 IAC 22.103.(2)*
6. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108 (11)*

G18. Duty to Modify a Title V Permit
1. Administrative Amendment.
a. An administrative permit amendment is a permit revision that is required to do any of the following:
i. Correct typographical errors
ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
iii. Require more frequent monitoring or reporting by the permittee; or
iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.
a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
i. Do not violate any applicable requirements
ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
v. Are not modifications under any provision of Title I of the Act; and
vi. Are not required to be processed as significant modification.
b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
ii. The permittee's suggested draft permit
iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.
3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113*

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits
Unless exempted under 567 IAC 22.1(2) and Chapter V, Article X, 5-33, the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8 & Polk County Chapter V, Article X, 5-28, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)* and *Chapter V, Article X, 5-28*

G20. Asbestos
The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when conducting any renovation or demolition activities at the facility. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning
The permittee is prohibited from conducting open burning, except as may be allowed by *Chapter V, Article III, 5-7*

G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated thereunder. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners or operators of the unit or the designated representative of the owners or operators is prohibited. Exceedences of applicable emission rates are prohibited. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings
1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;
b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield
1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
a. Such applicable requirements are included and are specifically identified in the permit; or
b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability
The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this Department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)* and *Chapter V, Article XVII, 5-77*

G27. Property Rights
The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability
This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer
No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.
Stack test notifications, reports and correspondence shall be sent to:
Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001
Within Polk County, stack test notifications, reports, correspondence, and the appropriate fee shall also be directed to the supervisor of the county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9) and *Chapter V, Article VII, 5-18 and 5-19*

G31. Prevention of Air Pollution Emergency Episodes
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:
Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 North 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the Department or the Director is:
Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

Reports or notifications to the local program shall be directed to the supervisor at the appropriate local program. Current address and phone number is:

Polk County Public Works Department
Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351